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## NEWS ITEMS

Dr. and Mrs. F. E. Clements have finished work on the Nebraska Bad Lands at Crawford, Harrison and Agate, and left on June 28 for an eight- or ten-day auto trip to the Big Bad Lands of South Dakota and the Little Missouri Bad Lands of North Dakota. From these they go to the Alpine Laboratory at Minnehaha on Pikes Peak for a month's work, chiefly on photometry. They expect to attend the San Diego meeting of the Pacific coast branch, where Professor Clements will give an illustrated paper on "Succession in the Bad Lands." On their return, they will spend a month or more in the Triassic and Cretaceous Bad Lands of Arizona and New Mexico.

At Cornell University, Dr. Lewis Knudson has been promoted from assistant professor to professor of botany.

The Royal Society of Edinburgh at its meeting of July 3, elected Professor D. H. Campbell and Professor Eugene Warming as fellows.

Professor B. E. Livingston and Dr. H. E. Pulling, of the laboratory of plant physiology of the Johns Hopkins University, will spend the months of August and September in the region of Fort Churchill and Port Nelson, Hudson Bay. They will carry out field studies of vegetation as related to soil and climate.

Miss Alice Eastwood, curator of the botanical department of the California Academy of Sciences, spent five days, from June 15 to 20, collecting at the Grand Canyon of the Colorado. The Hermit Trail was traveled to the bottom of the canyon, and the Grand View or Berry Trail for about two miles down. The Bright Angel Trail had been explored previously by Miss Eastwood. About 270 species were collected.

The Stanford Arboretum, comprising approximately 200 acres, and established by Senator Stanford in 1882, has been placed under the control of the department of botany with a view of more fully utilizing it for scientific purposes. An annual appro-

priation is to be made for the acquisition of specimens, that for the current year being \$1,000.

Under the auspices of the Botanical Seminar of the Michigan Agricultural College, Dr. William Crocker, of the University of Chicago, gave a public address recently on the "History of Our Present Knowledge of Plant Nutrition."

At the Michigan Agricultural College, Mr. G. R. Johnstone has resigned his instructorship in botany which he has held for three years, in order to prosecute his studies further. The vacancy has been filled by the appointment of Mr. H. C. Young, who was at the Missouri Botanical Garden last year.

Dr. Raymond J. Pool, who was recently elected head of the department of botany in the University of Nebraska, has spent several weeks in continuing his studies of Rocky Mountain chaparral associations with headquarters at Dr. Clements' cottage at Minnehaha-on-Ruxton, near Manitou, Colorado.